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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-07-23-10 Date: 25-07-2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyananyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-07-2018
Sample ID No : 2018-07-23-10 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 24-07-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.385	545	673	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.626	570	687	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	589	698	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
Vidyananyapura Sub Division
BBMP, Bangalore - 97



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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-07-23-10 **Date:** 28-07-2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.

Customer's Reference : BBMP/EE/BTP/WO/56/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-07-23-10 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.53	100.41	1.126	4480	80.6	18.0	16.7	20.9
2	Cover Slab-2	75.49	100.52	1.123	4475	83.3	18.6	17.3	21.6
3	Cover Slab-3	75.51	100.53	1.123	4477	82.5	18.4	17.1	21.4

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R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-23-10 Date: 27-07-2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-07-2018
Sample ID No : 2018-07-23-10 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 24-07-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	—
2	Fineness by Air permeability method (m ² /kg, Min)	295.9	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time (minutes)	145 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.0mm	Not more than 10 mm

Note:

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R. Karthik Rechan

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-23-10 Date: 21-08-2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-07-2018
Sample ID No : 2018-07-23-10 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 24-07-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results (N/mm ²)	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	57.5N/mm ²	Not less than 53 N/mm ²

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-23-10 Date: 27-07-2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 23-07-2018
Sample ID No : 2018-07-23-10 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 23-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore



M : 9972924526 | Tel : +91 80 23444801 | E : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-23-10

Date: 27-07-2018

Sample ID No : 2018-07-23-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.24	—

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

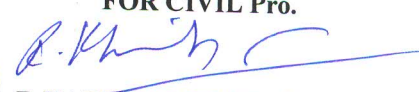
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-23-10 Date: 27-07-2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.

Customer Reference : BBMP/EE/BTP/WO/56/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-07-23-10 /02(b)

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 23-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	-

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-23-10

Date: 27-07-2018

Sample ID No : 2018-07-23-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

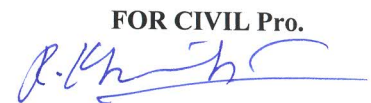
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-23-10 Date: 27-07-2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.

Customer's Reference : BBMP/EE/BTP/WO/56/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-07-23-10 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 23-07-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



P.Kh

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-23-10

Date: 27-07-2018

Sample ID No : 2018-07-23-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	—
2	Specific Gravity	2.57	—
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-31-05 Date: 06/08/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyananyapura Sub Division.

Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.

Customer's Reference : BBMP/EE/BTP/WO/56/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-2018

Sample ID No : 2018-07-31-05 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm) ³	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	30/07/2018	06/08/2018	150.42 X 150.54 X 150.45	22644	8.098	423.6	18.7	18.5
2	RMC	M20	30/07/2018	06/08/2018	150.32 X 150.54 X 150.35	22629	8.111	420.4	18.6	
3	RMC	M20	30/07/2018	06/08/2018	150.32 X 150.54 X 150.35	22629	8.261	411.4	18.2	

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Authorized Signatory

Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-31-05 **Date:** 27/08/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-07-2018
Sample ID No : 2018-07-31-05 /02
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	30/07/2018	27/08/2018	150.42 X 150.54 X 150.45	22644	8.340	521.3	23.0	23.0
2	RMC	M20	30/07/2018	27/08/2018	150.32 X 150.54 X 150.35	22629	8.355	511.8	22.6	
3	RMC	M20	30/07/2018	27/08/2018	150.32 X 150.54 X 150.35	22629	8.020	526.2	23.3	

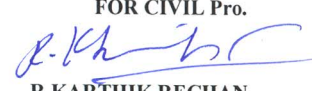
Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate


Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-31-05 Date: 06/08/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.

Customer's Reference : BBMP/EE/BTP/WO/56/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-2018

Sample ID No : 2018-07-31-05 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm) ³	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	30/07/2018	06/08/2018	149.73 X 150.80 X 151.88	22579	8.376	419.7	18.6	18.4
2	RMC	M20	30/07/2018	06/08/2018	150.85 X 151.58 X 150.68	22867	8.340	421.3	18.4	
3	RMC	M20	30/07/2018	06/08/2018	150.64 X 149.37 X 150.73	22501	8.372	411.0	18.3	

Note:

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Assistant Executive Engineer
 Vidyaranyapura Sub Division
 BBMP, Bangalore - 560014

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R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-31-05 Date: 27/08/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Singapura paradise in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency : Sri.S.Venkateshappa, #530, Kaliyamma temple road, Kuvempunagara 2nd stage, Bangalore-560014.
Customer's Reference : BBMP/EE/BTP/WO/56/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-07-2018
Sample ID No : 2018-07-31-05 /04
Customer ID : RMC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	30/07/2018	27/08/2018	149.98 X 150.90 X 151.98	22632	8.173	527.0	23.3	23.2
2	RMC	M20	30/07/2018	27/08/2018	150.61 X 149.73 X 151.83	22551	8.416	505.5	22.4	
3	RMC	M20	30/07/2018	27/08/2018	151.34 X 150.11 X 151.61	22718	8.434	544.1	24.0	

Note:

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